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ABSTRACT

A driving force distribution system selectively operates right and left electromagnetic clutches and, thereby assisting a vehicle in turning by transmitting torque from the inner turning wheel to the outer turning wheel. The right electromagnetic clutch includes an armature on the right side of a core housing a coil. The left electromagnetic clutch includes an armature on the left side of the core housing a coil. When the right electromagnetic clutch is engaged in order to assist the turning by transmitting torque from the right driven wheel to the left driven wheel when the vehicle is turning right, since the right electromagnetic clutch includes the armature on the right side of the core, the armature is urged leftward toward the core due to a centrifugal force caused by turning right to reduce an air gap, thereby enhancing the responsiveness of engagement of the right electromagnetic clutch as well as reducing the power consumption.

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